## U. S. GEOLOGICAL SURVEY Washington, D. C. 20242

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The U. S. Geological Survey is releasing in open files the following reports. Copies are available for consultation in the Geological Survey Libraries, 1033 GSA Bldg., Washington, D.C. 20242; Bldg. 25, Federal Center, Denver, Colo. 80225; and 345 Middlefield Rd., Menlo Park, Calif. 94025. Copies are also available for consultation in other offices as listed:

- 1. Lithologic logs of six exploratory holes (UCe-9, -10, -11, -12a, -13, and -14) drilled in alluvium in central Nevada, by G. S. Corchary. 19 p., 1 fig., 6 tables. 1012 Federal Bldg., Denver, Colo. 80202; 504 Custom House, San Francisco, Calif. 94111; 7638 Federal Bldg., Los Angeles, Calif. 90012; 8102 Federal Office Bldg., Salt Lake City, Utah 84111; Library, Mackay School of Mines, University of Nevada, Reno, Nev. 89507.
- 2. Preliminary materials map of the Woronoco quadrangle, Massachusetts, by G. William Holmes. 1 map (scale 1:24,000), 8 data sheets. Massachusetts Dept. of Public Works, 100 Nashua St., Boston, Mass. 02114; and USGS, 80 Broad St., Boston, Mass. 02110. Material from which copy can be made at private expense is available in the USGS Boston office.
  - 3. Imagery of craters produced by missile impacts, by H. J. Moore, Reuben Kachadoorian, and J. F. McCauley. 38 p., 17 figs., 1 table. 601 E. Cedar Ave., Flagstaff, Ariz. 86001.
  - 4. Principal facts for gravity stations in northeastern Washington, by W. E. Davis, and W. T. Kinoshita. 14 p. 504 Custom House, San Francisco, Calif., 94111; 7638 Federal Bldg., Los Angeles, Calif. 90012; 678 U.S. Court House Bldg., Spokane, Wash., 99201; Washington Division of Mines and Geology, Dept. of Natural Resources, 335 General Administration Bldg., Olympia, Wash. 98501.

The following four reports are available for consultation in the three U. S. Geological Survey Libraries listed in opening paragraph above, as well as at the Kentucky Geological Survey, 307 Mineral Industries Bldg., University of Kentucky, Lexington, Ky. 40506; and USGS, 710 West High St., Lexington, Ky. 40508. Material from which reproduction can be made at private expense is available in the Lexington office of USGS.

- 5. Preliminary structure map of the Ford quadrangle, central Kentucky, by D. F. B. Black. 1 map, scale 1:24,000.
- 6. Preliminary structure map of the Salvisa quadrangle, central Kentucky, by Earle R. Cressman. 1 map, scale 1:24,000.
- 7. Preliminary structure map of the Nicholasville quadrangle, Jessamine and Fayette Counties, Kentucky, by W. C. MacQuown. 1 map, scale 1:24,000.
- 8. Preliminary structure map of the Little Hickman quadrangle, central Kentucky, by Don E. Wolcott. 1 map, scale 1:24,000.

			Station number 1 Active Town Westfield Pit x Inactive 42°08.5' N mery Road Coordinates 72°46' W		
Geologic unit en	cocurrence	Delta de	posit	3	MOTO
Textural descrip	ption Cobble	e gravel	Eng. Soil Type Gu	<b>GADRANGLI</b>	Moronoco
Dimensions of de	sposit: Areal	extent 60	000'x 6000' Estimated thickness 60'	JGL	u
Dimensions of pi	it: Areal exte	nt <u>500'</u> 2	x 500' Exposed thickness 20'		
Lithologic compo	esition (approx	rimate %)			
Grain size: Max	rimum 10" )	Man 1 mm	Ret. % of sand 50 Est. % fines _2		
Rounding Well	Grad	iing	Vell Sorting Medium well	1	
Soil development	6-12" Sandy	A-B horiz	on Celor Light brown		
Oxidation or sta	ining 12"		Leaching	87.A38	教
Secondary deposi	ition		Reactive matter	H	
			Section:	ı	
Rock ty	rp <b>e</b>		Slumped	ļ	
Gneiss		19	No delta bedding seen		_
Granitic	*	41			
Quartzite		30		CLOLOGIS	
Mafic		8		0181	DOTES OF
Schist		2			
			·		4
				EVE	U 1 Y
				A	DOCT
wral Description	1: Very large	shallow	pit of high-quality coarse clean		•
•	, 0		prosching housing development		7

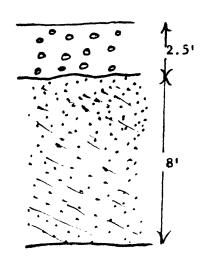
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## Field and megascopic observations:

			on number	
Location: County Hampden	Town	Westfield	Pit X	Active Inactive
Road location Pochassic				
Geologic unit or occurrence Delta Cobble gravel				GW 2
Textural description Coarse sand		Eng. Se	oil Type	SW
Cobble gravel Textural description Coarse sand  Dimensions of deposit: Areal extent 60	000x600	D' Estina	ed thick	ness <u>60'</u>
Dimensions of pit: Areal extent 1000x	800'	Exposed this	ckness	12'
Lithologic composition (approximate %)		**************************************		
Grain size: Maximum 8" Mean 1 mm	Est. 7	t of sand 70	Ret. % f	ines 1
Rounding Well Grading We	ell	Sorting	Medium	
Seil development Stripped	Col	Reddish	brown (s	
Oxidation or staining 1-2'		Leaching		<b>\$</b>
Secondary deposition	React	ive matter _		P4

## Section:

Rock type	%
Gneiss	22
Granitic	28
Quartzite	39
Mafic	1
Schist	1
Limestone	5
Miscellaneous	4



GEOLOGIST

July, 1966

Mass. materials

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General Description: Very large active pit (W. E. Moore, Inc.). Good to fair quality gravel and large quantity of gray coarse clean sand in sporadic exposures in foreset beds. Topset-foreset interface about 203'.

Field and megascopic observations:  Station number 3  Activ Location: County Hampdon Town Westfield Pit 12009'N  Road location Near end of Pochassic St. Coordinates 72018'W	ive	
Geologic unit or occurrence Stream terrace deposit  Textural description Gobble gravel Eng. Soil Type GP  Dimensions of deposit: Areal extent 2000x5000' Estimated thickness  Dimensions of pit: Areal extent 200x200' Exposed thickness 18'  Quartaite 30, granitic 30, gneiss  Lithelegic composition (approximate %) Schist 10  Grain size: Haximum 1.5 Heam 1 Est. % of send 30 Est. % fines	30,	Worknooe
Reunding Well Grading Medium Serting Medium  Thin (.5') A horizon Brown Seil development Indistinct B Color Yellow  Oxidation or staining Slight staining to base Leaching —  Secondary deposition — Reactive matter —  Section:	TO STATE	Mass.
Rock type	GEOLUCIAL	G. W. Holmes
, in the second	į	Aug., 1900
General Bescription: Nearly uniform section of cobble gravel with gently		3

	Section:
Rock type	
	1
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3

undulating channel bedding and a few undulating lenses of sand Ca.1' thick is used for bank run gravel.

pield	and	magasco	oic c	observat	ions:
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	Station number 4	
Location: County Hampden	Town Westfield Pit Inactive	
Read location End of Each	assic St. Coordinates 72°48' W	
Geologic unit or occurrence Stream t	errace deposit	Woronoco
Textural description Gravel of mi	xed sizes Eng. Seil Type GW	onoc
Dimensions of deposit: Areal extent	4400' x 2000' Estimated thickness 130'	0
Dimensions of pit: Areal extent 500	0'x 600' Exposed thickness 45'	
-	Quartzite 30, granite 30, gneiss 20, schist 20	
Grain size: Maximum 3' Mean 3'	Est. % of sand 60 Bst. % fines 5	
Rounding Well Grading W	Vell Sorting Medium	
Seil development Indistinct B	Brown Color Lt. yellow	3
	Leaching	Mass
	Reactive matter	4
Journal of the state of the sta		
	Section: Extremely variable	
Reck type	Over 300'-400' Exp.	
	- · · · · · · · · · · · · · · · · · · ·	
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		1 lmes
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		Aug
		August, 19
		19

General Description: Texture and bedding variable but essentially channeled to well-stratified flat-bedded gravel and sand. Single section not too illustrative. Good quality, large quantity of gravel and sand for washed aggregate.

Mass. materials

5

\* A few 5-8! boulders.

Road location Car Geologic unit or occurrence Textural description Gravel Dimensions of deposit: Areal Dimensions of pit: Areal ext Lithologic composition (appro-	Stream to of mixed extent 20 ent 100 extent 7)	Sizes Eng. Soil Type GU  000' x 200' Estimated thickness 100'  x 100' Exposed thickness 45'	CLE	MOLODOCO
Sub-rounded to	ding Med.	to well Sorting Med, to poor  Celor 10 VR dry 7/4		
Oxidation or staining			STATE	4884
		Reactive matter None noted	Ħ	Massachuset
		Section:		5
Reck type	7.		:	Ì
Granite	48			
Mafic	24		<b>a</b>	-
Quartzite	24	·	7201	h
Quartz	2		GEOLOGIST	E
Gneiss	2,		•	2
			:	
		· ·	2	8-1-1
				23

Station number 6

Oxidation or staining				
Secondary deposition				
Rock type	7.			
Granite	48			
Mafic	24			
Quartzite	24			
Quartz	2			
Gneiss	2,			

General Description:

Slump obscures section. Dip and collapse present. Fines are stratified above a 4' cobble-gravel layer.

ste and makescobic enserateron	<b></b> ;		Station number 7	_
	th of Rt.	112	Coordinates 72°52.5'W	-
Geologic unit or occurrence	Stream ter	race deposi	it	- Bior
Textural description Gravel	of mixed	sizes	Eng. Soil Type GW	WOYONOCO:
Dimensions of deposit: Areal	extent 1	000' x 200'	Estimated thickness 40	_ 51°
Dimensions of pit: Areal ext	ent 50'	x 75' Exp	cood thickness 15'	_
Lithologic composition (appro	mimete %)	***************************************		_
Grain size: Maximum _7'	Mean 0.04	"Bat. % of	sand 50 Ret. 7 fines 40	_
Rounding Sub-rounded Gra	ding Med	to well	Sorting Poor to medium	_ 3
Seil development A = 5"; B =	10"	Celor _	10 YR 5/1 - 5/2	Massachusetts STATE
Oxidation or staining		LAs	ehing	- STATE
Secondary deposition		Reactive	matter Minor CaCO	- HE ITTE
	·	s	ection:	- 1
Rock type	7.			
Quartz	8			င
Amphibolite	38			_  0
Phyllite	10			Kelle:
G <b>ra</b> nite	30			GIST
Quartzite	12			
Schist	2			

## General Description:

Pit surface slump obscures section. Large cobbles concentrated in the 2' below B Zone,

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